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**TITLE:** Filter element for liquids and gases - comprises filter partition in the form of cylindrical helix with sinusoidal windings, lid and nozzle at opposite ends, and elastic element between frame and lid

**INVENTOR:** KRAPUKHIN, V B

**PRIORITY-DATA:** 1992RU-0014963 (December 29, 1992)

**PATENT-FAMILY:**

<b>PUB-NO</b>	<b>PUB-DATE</b>	<b>LANGUAGE</b>	<b>PAGES</b>	<b>MAIN-IPC</b>
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**INT-CL (IPC):** B01 D 29/48

**ABSTRACTED-PUB-NO:** RU 2077925C

**BASIC-ABSTRACT:**

The filter element comprises filter partition (1), frame (2), elastic element (3), lid (4), and nozzle (5) for input and output of liquid or gas. The filter partition (1) is made in the form of screw helix with sinusoidal windings. The loops of winding are made by a sinusoid folded along helix. The sinusoidal curve can be in the plane of windings (fig. 2), or in the plane parallel to the axis of filter element (fig. 3). The filter spacing in the first variant is determined by the length l between neighbouring crests of sinusoidal wave, and distance a between troughs. The frame can be placed on outer or on inner side of filter partition.

**USE** - In devices for filtration of liquids and gases, in particular of radioactive and corrosive liquids and gases in nuclear and thermo-electric power plants, in petroleum and chemical branches of industry, in transport vehicles for purification of fuel, oil and air, in production of paints, in building and food-processing branches of industry, and in households for purification of water.

**ADVANTAGE** - Increase productivity of filter element.